## REMARKS

This Response is responsive to the Final Office Action mailed February 17, 2009 ("Office Action").

## Claim Rejections - 35 USC § 103(a)

Claims 17, 20, 21, and 23-30 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Stevens (U.S. Publication No. 2002/0155329) in view of Monzyk et al. (U.S. Patent No. 6,503,298).

Claim 17 of the present invention discloses a method for generating a hydrogen-rich reformate, the method comprising the steps of reacting a hydrocarbon fuel in a catalyst bed comprising a reforming catalyst and carbon dioxide fixing material to produce a reformate comprising hydrogen and carbon dioxide, the carbon dioxide fixing material fixing at least a portion of the carbon dioxide in the reformate to produce an intermediate reformate; removing hydrogen from the intermediate reformate by flowing the intermediate reformate through a first purification bed comprising a hydrogen fixing material to produce a hydrogen-depleted gas and fixed hydrogen; and releasing the fixed hydrogen from the first purification bed to produce a hydrogen-rich gas.

According to the Examiner, Stevens discloses a method for generating a hydrogen-rich reformate (Office Action, p. 2). According to the Examiner, Monzyk discloses a preferable hydrogen purification unit that can be used downstream of a reformer and used to produce hydrogen for a fuel cell (Office Action, p. 4).

According to the Examiner, Monzyk teaches the process as an efficient and preferable way of purifying hydrogen and Stevens discloses the preference for high purity hydrogen for the efficient operation of a fuel cell and lower cost. As such, according to the Examiner, it would have been obvious to one of ordinary skill in the art at the time of the invention to add the hydrogen purification process of Monzyk to

U.S.S.N. 10/827,187 RCE August 17, 2009

the hydrogen generating process of Stevens in order to provide high purity hydrogen in an efficient way for uses such as in fuel cells.

Claim 18 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Stevens (U.S. Publication No. 2002/0155329) in view of Monzyk et al. (U.S. Patent No. 6,503,298), as applied to claim 17 above, and further in view of Golben (U.S. Patent No. 5,250,368).

Claim 18 is believed to be in condition for allowance by virtue of its dependency from claim 17. Applicants respectfully request reconsideration and withdrawal of this rejection of claim 18.

Claim 19 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Stevens (U.S. Publication No. 2002/0155329) in view of Monzyk et al. (U.S.

U.S.S.N. 10/827,187 RCE August 17, 2009

Patent No. 6,503,298), as applied to claim 17 above, and further evidenced by Heung (U.S. Patent No. 5,958,098).

Claim 19 is believed to be in condition for allowance by virtue of its dependency from claim 17. Applicants respectfully request reconsideration and withdrawal of this rejection of claim 19.

Claim 22 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Stevens (U.S. Publication No. 2002/0155329) in view of Monzyk et al. (U.S. Patent No. 6,503,298), as applied to claim 17 above, and further evidenced by Schiodt et al. (U.S. Publication No. 2001/0055560).

Claim 22 is believed to be in condition for allowance by virtue of its dependency from claim 17. Applicants respectfully request reconsideration and withdrawal of this rejection of claim 22.

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## Conclusion

All of the stated grounds of objection and rejection are believed to have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete response has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment is respectfully requested.

U.S.S.N. 10/827,187 RCE August 17, 2009

Respectfully submitted,

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